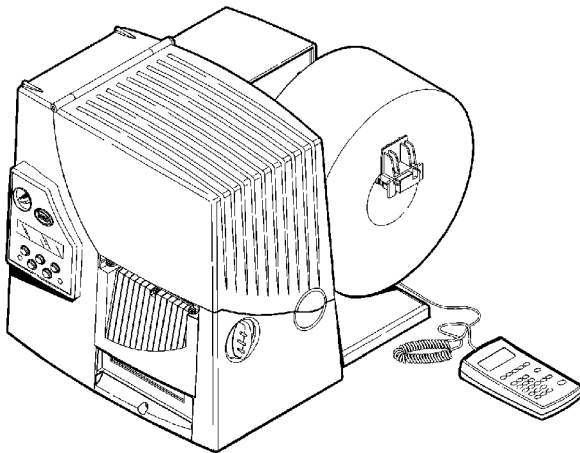


Operating Instructions

Monarch™
917™ Keypad



Monarch®
PAXAR

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WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CANADIAN D.O.C. WARNING

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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GETTING STARTED

1

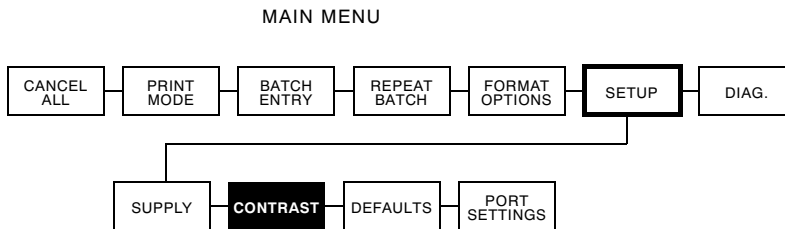
The Monarch™ 917™ keypad allows you to easily configure the printer and enter data offline for formats.

This chapter includes information about

- ◆ connecting the power cable.
- ◆ using the keypad.

Each chapter of this manual has one or more charts showing the printer's menu structure. For example:

- ◆ Normal border boxes show the menu options.
- ◆ Heavy border boxes show the selections to get to the functions.
- ◆ Black background boxes show the functions.
- ◆ The black boxes show where you are; the bordered boxes show how you got there.

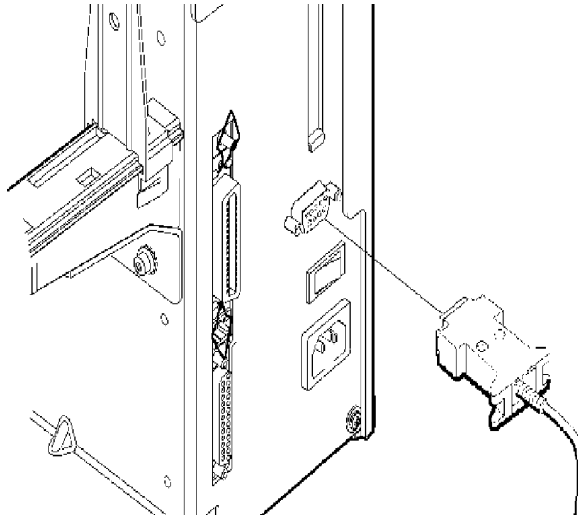


Connecting the Cable

To connect the cable:

CAUTION

The printer power switch must be off while you connect the keypad cable.



1. Plug the keypad cable into the keypad. Plug the other end of the cable into the printer.
2. Turn on the printer. Press (I) to turn on and (O) to turn off the printer.

After you turn on the printer, you will see:











PRINT MODE
Ready


Using the Keypad

You can control printer operation and enter data offline using the keypad.

The keypad has 24-keys allowing offline data entry. This keypad includes 7 function keys, 10 numeric keys, and 5 symbol keys.

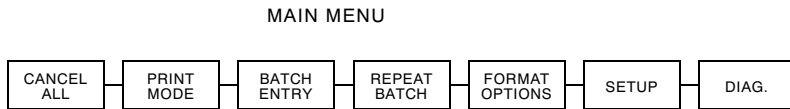
Control Keys

	Interrupts printing. Enters an international character for printing when you enter  plus a three-digit code. See Appendix A for more information.
	Returns the display to the next higher menu, when you press  once.
	Feeds a blank label if there is no print job. Prints a label in the on-demand mode.
	Cuts the supply.
	Clears an error.
	Displays the next menu item.
	Displays the previous menu item.
	Selects the displayed menu item.

Use the alpha numeric keys to enter batch data. To switch between characters and numbers, press .

Selecting a Function

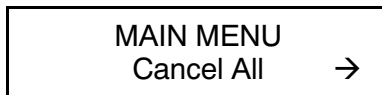
The Main menu has several functions (operating modes). These functions are shown in the chart below.



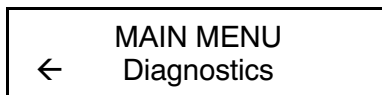
If the printer displays **PRINT MODE Ready**
when you turn it on, press **Escape** to display the
Main menu.

To display menu options, press **<** or **>**.

- ◆ When the screen displays a right arrow, press **>** to display more options.



- ◆ When the screen displays a left arrow, press **<** to display more options.





- ◆ When the screen displays a left and a right arrow, press either **<** or **>** to display more options.




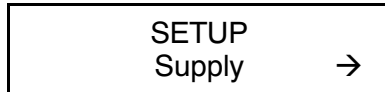
- ◆ When you see the menu option you want, press **Enter** to select it.

The Main Menu controls the printer's setup and operation. Through the Setup Menu, you can select a sub-menu for the supply, contrast, default, or port settings. Each of those sub-menus have several selections, such as ribbon, speed, monetary symbols, and baud rate.

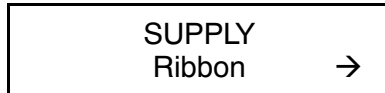
1. From the Main Menu, press  or  until you see




2. Press . You will see





3. Press . You will see the following option:



Exiting an Option

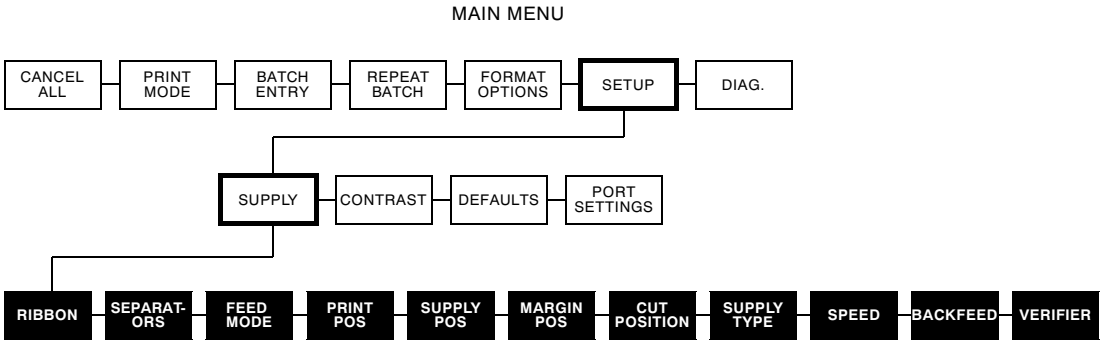
To exit an option, press  once. You will exit to the next higher menu.

—————
If you press  from a menu, your settings are not saved. Your settings are only saved when you press  from a menu.
—————

SETTING SUPPLY OPTIONS

2

This chapter explains how to select a ribbon, separators, feed mode, print position, supply position, margin position, cut position, supply type, speed, backfeed, and verifier options.



You may need to set supply options when you change supplies. The options are listed in the table below.

Option	Choices	Default
Ribbon	No/Yes/High Energy	Yes
Separators	No/Yes/Long	No
Feed Mode	Continuous/On-Demand	Continuous
Print Position	-99 to +99	0
Supply Position	-300 to +300	0
Margin Position	-99 to +99	0
Cut Position	-300 to +300	0
Supply Type	Aperture/Die Cut/Black Mark/Continuous	Die Cut
Speed	2.5/4.0/6.0/8.0/10.0/Default	Default
Backfeed	Off/On/Extended	Off
Verifier	Disabled/Enabled	Disabled

To exit an option without changing the setting, press **Escape**.

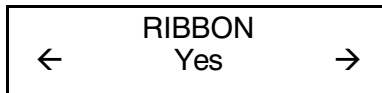
Ribbon

You have to tell the printer if your supplies require a ribbon. To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press **<** or **>** until you see



2. Press **Enter** to set the ribbon option. You will see the current setting, for example:

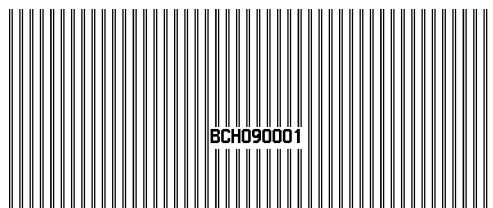


3. Press **<** or **>** to see the other options. After you display the option you want, press **Enter**. Press **Escape** twice to exit to the Main menu.

—————
If you set the Ribbon option to **Yes**, install a
ribbon before printing.
—————

Batch Separators

A batch separator is an extra tag with a pinstripe pattern. It is printed between batches to make batches easier to find. If you select "Long" for the separator, a double-length (two tags) separator prints.

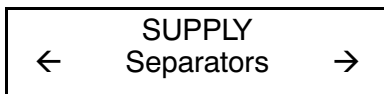


Batch Separator

Changing this setting only affects new
formats sent to the printer.

To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press **<** or **>** until you see



2. Press **Enter** to set the batch separators option. You will see the current setting, for example:



3. Press **<** or **>** to see the other option. After you display the option you want, press **Enter**. Press **Escape** twice to exit to the Main menu.


Feed Mode

You can use continuous or on-demand printing. On-demand printing allows you to remove a label before printing the next one.





To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press  or  until you see



2. Press  to set the supply type option. You will see the current setting, for example:



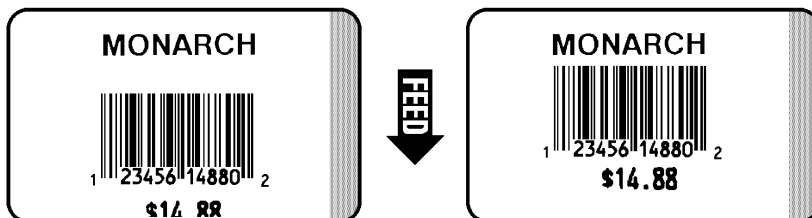
3. Press  or  to see the other option. After you display the option you want, press . Press  twice to exit to the Main menu.

Print Position

This function adjusts where data prints vertically on the supply. Adjust the print if it is too close to the top or bottom of the supply, or overtypes the pre-printed area. One dot is 0.0049 inch.

- ◆ If the data is too close to the bottom, increase the number.
- ◆ If the data is too close to the top, decrease the number.

Changing this setting only affects new
formats sent to the printer.

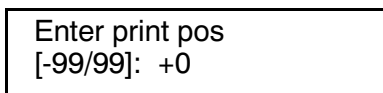


To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press or until you see



2. Press . You will see the current setting, for example:



3. Press or to change the print position. Pressing decreases the value (moves the image down); increases it (moves the image up).
4. Press when the number you need appears. Press twice to exit to the Main menu.

Supply Position

This function adjusts how much supply feeds out of the exit chute. You may need to adjust the supply in or out to allow

- ◆ tags and labels to be removed.
- ◆ die cut labels to be removed easily.

The adjustments are in dots (0.0049 inch).

- ◆ Increase the number to feed more supply out of the chute.
- ◆ Decrease the number to feed less supply out of the chute.

This option takes effect on the next label or tag printed.
Changing supply position may also affect print position.

To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press or until you see

SUPPLY
 Supply Pos

2. Press . You will see the current setting, for example:

Enter supply pos
 [-300/300]: +0

3. Press or to change the supply position. Pressing decreases the value (feeds less supply); increases it (feeds more supply).
4. Press when the number you need appears. Press twice to exit to the Main menu.

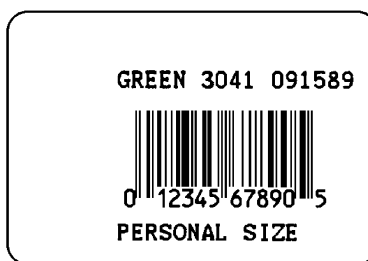
Margin Position

This function adjusts where the format prints horizontally on the supply. The adjustments are in dots (0.0049 inch), which is the smallest measurement the printer recognizes.

The width of the print area depends on your supply size. Maximum width is four inches. When you move the image to the right or left on the supply, avoid moving the image too close to either edge, because it may not print.



Print too far to the left.



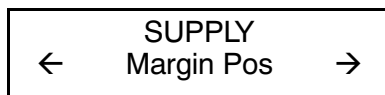
Print too far to the right.

- ◆ If the data is too close to the left side, increase the number.
- ◆ If the data is too close to the right side, decrease the number.

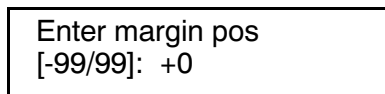
Changing this setting only affects new
formats sent to the printer.

To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press or until you see



2. Press . You will see the current setting, for example:



3. Press or to change the margin position. Pressing decreases the value (moves the image toward the left side of the supply); increases it (moves the image toward the right side of the supply).

4. Press **Enter** when the number you need appears. Press **Escape** twice to exit to the Main menu.

Cut Position

This function adjusts where the tag is cut. The printer adjusts the cut position according to the black marks on the supply. You may need to adjust for aperature supplies. Increase to move the cut up; decrease to move the cut down.

To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press **<** or **>** until you see

←	SUPPLY Cut Pos	→
---	-------------------	---

2. Press **Enter**. You will see the current setting, for example:

Enter knife adj [-300/300]: +0

3. Press **<** or **>** to change the cut position. Pressing **<** decreases the value (moves the cut down); **>** increases it (moves the cut up).
4. Press **Enter** when the number you need appears. Press **Escape** to exit to the Setup menu.

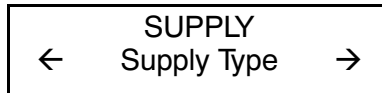
Supply Type


You can print on aperture, black mark, die cut, or continuous supplies. You have to tell the printer which supplies you are using.

—————
If you are using edge aperture supplies, use the die cut setting. If you are using center aperture supplies, use the aperture setting.
—————





To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press  or  until you see



2. Press  to set the supply type option. You will see the current setting, for example:



3. Press  or  to see the other options. After you display the option you want, press . Press  twice to exit to the Main menu.

Speed

You can change the print speed for bar codes or graphics. If you select "default" for speed, formats with serial bar codes automatically print at 2.5IPS. Other formats print at 6.0IPS.

Refer to the following table for maximum print speeds for your printer.

Printer	Maximum Print Speed
9835	6.0 ips
9840	8.0 ips
9850	10.0 ips (thermal direct only) NOTE: 203 dpi serial bar codes with narrow elements 3 dots (or greater) can be printed at 4.0 ips. For additional high speed printing information, refer to your <i>9850 Operator's Handbook</i> .

To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press or until you see

← SUPPLY
Speed

2. Press to set the speed option. You will see the current setting, for example:

SPEED
6.0 IPS →

3. Press or to see the other options. After you display the option you want, press . Press twice to exit to the Main menu.



Backfeed

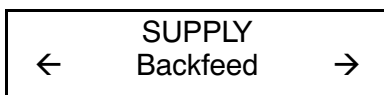
Backfeed works by advancing each printed label to the desired dispense position. Once that label is removed, the next label to be printed is backed up underneath the printhead. In continuous mode, only the last label in the batch is advanced to the dispense position. Extended backfeed is available on 9835, 9840, or 9850 printers with a knife installed. Extended backfeed feeds a tag far enough out to be cut and backfeeds the next tag to the printhead line.


Extended backfeed eliminates *printed* tags being left between the printhead and knife. Extended backfeed works with the selected cut modes. Refer to the optional *Packet Reference Manual* to learn how to define the Backfeed Control Packet. Extended backfeed **does not** work with non-indexed (continuous) supply/mode. Do not use backfeed (normal or extended) with supplies less than 0.75 inches.

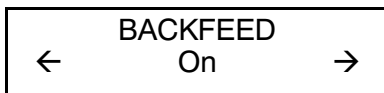
—————
We recommend using 0.5-inch gap supplies in
peel mode when backfeed is disabled.
—————

To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press  or  until you see



2. Press  to set the backfeed option. You will see the current setting, for example:



3. Press **<** or **>** to see the other options. After you display the option you want, press **Enter**. Press **Escape** twice to exit to the Main menu. You can only enable or disable backfeed/extended backfeed. You cannot set the backfeed or dispense position. Your System Administrator should refer to the optional *Packet Reference Manual* to set the backfeed or dispense position.

Verifier

The verifier scans and checks the quality of bar codes as they are printed. The optional verifier must be purchased separately.

This option only appears if you are using a
9850 printer.

To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press **<** or **>** until you see

← SUPPLY Verifier

2. Press **Enter** to set the verifier option. You will see the current setting, for example:

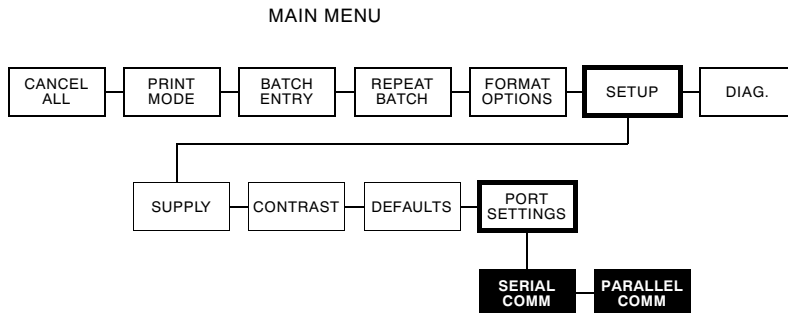
VERIFIER Disabled →

3. Press **←** or **→** to see the other option. After you display the option you want, press **Enter**. Press **Escape** twice to exit to the Main menu. For additional verifier information, refer to your verifier's manual.

COMMUNICATION VALUES

3

This chapter tells you how to set the serial or parallel communication values. These values provide the link for normal online printing.



You need to set your Serial Comm values to match your computer's online communications. Before entering the communication values, see your System Administrator.

The serial communication values are listed in the table below.

Option	Choices	Default
Baud rate	1200/2400/4800/9600/19200/ 38400/57600/115200	9600
Word length	7/8	8
Stop bits	1/2	1
Parity	None/Odd/Even	None
Flow control	None/Xon/Xoff/DTR/CTS	DTR
Reset	No/Yes	No

Baud Rate

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **Enter** to set the baud rate. You will see the current setting, for example:

←	BAUD RATE 9600	→
---	-------------------	---

2. Press **<** or **>** to display the baud rate you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

Only the 9850 printer supports 57600 and
115200 baud.

Word Length

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **<** or **>** until you see

←	USER COMM Word Length	→
---	--------------------------	---

2. Press **Enter**. You will see the current setting, for example:

←	WORD LENGTH 8	→
---	------------------	---

3. Press **<** or **>** to display the word length you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

Stop Bits

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **<** or **>** until you see

←	USER COMM Stopbits	→
---	-----------------------	---

2. Press **Enter**. You will see the current setting, for example:

	STOPBITS 1	→
--	---------------	---

3. Press **<** or **>** to display the number of stop bits you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

Parity

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **<** or **>** until you see

←	USER COMM Parity	→
---	---------------------	---

2. Press **Enter**. You will see the current setting, for example:

	PARITY None	→
--	----------------	---

3. Press **<** or **>** to display the parity you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

Flow Control

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press or until you see

	USER COMM	
←	Flow Control	→

2. Press . You will see the current setting, for example:

	FLOW CONTROL	
←	DTR	→

3. Press or to display the flow control you need, then press . Press three times to exit to the Main Menu.

XON is 17; XOFF is 19. Set flow control to DTR for PC computers (unless you have XON/XOFF software).

Reset to Default Values

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press until you see

	USER COMM	
←	Reset	

2. Press . You will see

	Are you sure?	
	No	→

3. Press **<** or **>** to make your selection, then press **Enter**.
Press **Escape** three times to exit to the Main Menu.

Parallel Communications

The parallel communications menu allows you to set the active parallel port to either internal or external. The internal port is used for printer options installed inside the printer, such as the Ethernet communication port. Use the external selection when connecting a printer cable or external device directly to the parallel port.

The mode selection allows the user to select either compatible or IEEE-1284 mode when using the selected parallel port. Usually, the mode should be set to compatible for computer connection using a parallel cable and to IEEE-1284 when using an Ethernet port option.

This option only appears if you are using a
9850 printer.

The parallel communication values are listed in the table below.


Option	Choices	Default
Port	External/Internal	External
Mode	Compatible/IEEE-1284	Compatible (Centronics mode)

To change the setting, from the Main Menu select Setup, Port Settings, then Parallel Comm. Then, follow these steps:

1. Press  or  until you see




A rectangular screen display with a black border. The text "PARALLEL COMM" is centered at the top, and "Port" is centered below it. A right-pointing arrow is located on the right side of the screen.

2. Press . You will see the current setting, for example:



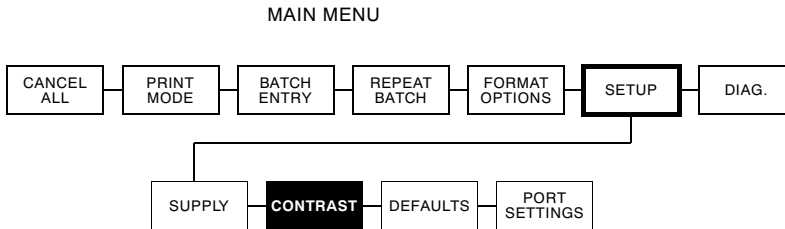
A rectangular screen display with a black border. The text "PORT" is centered at the top, and "External" is centered below it. A right-pointing arrow is located on the right side of the screen.

3. Press  to select the external port. You are now ready to communicate using an external connection through a cable or external device, such as the external Ethernet print server.

SETTING CONTRAST

4

This chapter explains how to set the contrast, which controls the darkness of the printing on your supply. The range is **-390** to **+156** and the default is **0**.



Correct contrast setting is important because it affects how well your bar codes scan and how long your printhead lasts. You can use a verifier to check bar codes for contrast.

1. From the Main Menu, press or until you see

MAIN MENU		
←	Setup	→

2. Press . You will be at the Setup menu. Press or until you see

SETUP		
←	Contrast	→

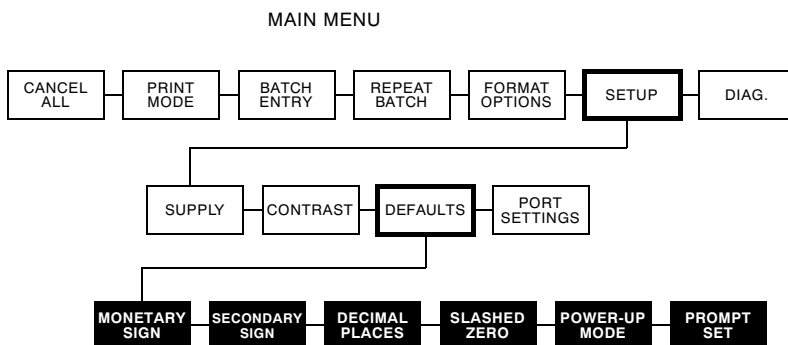
3. Press . You will see the current setting, for example:

Enter contrast
[-390/156]: +0

4. Use the arrow keys to change the contrast. Pressing darkens the print; lightens the print.
Press the arrow key once to change one number at a time.
5. Press to select the displayed value. Press to exit to the Main Menu.

SETTING DEFAULTS

This chapter explains how to select the monetary sign, secondary sign, decimal places, slashed zero, power-up mode, and prompt set.



You can set your printer configurations to fit your daily operation, using either the offline menus or the online configuration option. After an option is selected in the online configuration or offline Setup Menu, the option is saved when the printer is turned off.

The monetary formatting options are listed in the table below.

Option	Choices	Default
Monetary sign	None/USA/UK/Japan/ Germany/France/Spain/ Italy/Sweden/Finland/ Austria/India/Russia/ Korea/Thailand/China/Euro-Dollar	USA
Secondary Sign	No/Yes	No
Decimal Places	0/1/2/3	2
Slashed Zero	No/Yes	No
Power-up Mode	Online/Offline	Online
Prompt Set	English/French/German/Spanish	English

The monetary sign, secondary sign, and decimal places options are used in conjunction with option **42**. Refer to the *Packet Reference Manual* for more information.

The settings for Monetary Sign, Secondary Sign, Slashed Zero, and Decimal Places are applied when a format is downloaded. Changing the settings does **not** affect batches already in the printer.

Monetary Sign

You can also select **None** if you do not want a monetary sign to print in price fields. The monetary signs available for 15 countries are shown in the table below.

Country	Currency	Description
USA	\$	dollar
UK	£	pound
Japan	¥	yen
Germany	₤	deutsche mark
France	F	franc
Spain	P	peseta
Italy	L.	lira
Sweden	Kr	krona
Finland	₤	markka
Austria	₤	schilling
India	Rs	rupee
Russia	₤	ruble
Korea	₩	won
Thailand	฿	baht
China	¥	yuan
Euro-Dollar	€	euro-dollar

To change the setting, from the Main Menu, select Setup, then Defaults. Then, follow these steps. To exit an option without changing the setting, press **Escape**.

1. Press **Enter**. You will see the current setting, for example:

MONETARY SIGN		
←	USA	→

2. Press **<** or **>** until you see the country's monetary sign you want.
3. Press **Enter**. Press **Escape** twice to exit to the Main menu.

Secondary Sign

If you select USA as the monetary sign, you can print amounts less than \$1.00 either by using a dollar sign and decimal (\$0.30) or by using a cent sign (30¢).

- ◆ If you set the secondary sign option to **No**, prices under \$1.00 will print like this: **\$.45**
- ◆ If you set the secondary sign option to **Yes**, prices under \$1.00 will print like this: **45¢**

The same option applies to the appropriate secondary sign for monetary signs other than USA.

To change the setting, from the Main Menu, select Setup, then Defaults. Then, follow these steps.

1. Press **<** or **>** until you see

DEFAULTS		
←	Secondary Sign	→

2. Press **Enter**. You will see the current setting, for example:

SECONDARY SIGN		
No		→

3. Press **<** or **>** until you see the option you want. Then press **Enter**. Press **Escape** twice to exit to the Main menu.

Decimal Places

You can set the printer for 0, 1, 2, or 3 places after the decimal in a price field. In U.S. currency, you might print prices like this: \$24.00 (**2** decimal places) or like this: \$24 (**0** decimal places).

1. Press **<** or **>** until you see

DEFAULTS		
←	Decimal Places	→

2. Press **Enter**. You will see the current setting, for example:

DECIMAL PLACES		
←	2	→



3. Press **<** or **>** until you see the option you want. Then press **Enter**. Press **Escape** twice to exit to the Main menu.

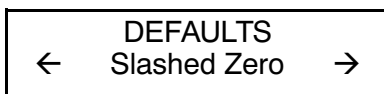
Slashed Zero


The slashed zero feature lets you select how you want the zero character printed; either without a slash, 0 or, with a slash, ø.

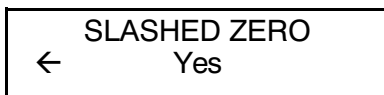
Standard or reduced fonts print the slashed zero character (ø). Bold and OCR fonts print the standard zero (0) only. The slashed zero selection will **not** be in effect until the format is sent to the printer again. If you change the way zero is printed, you must resend your formats.





To change the setting, from the Main Menu, select Setup, then Defaults. Then, follow these steps.

1. Press  or  until you see



2. Press . You will see the current setting, for example:





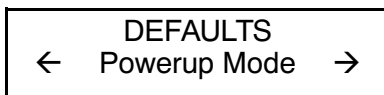
3. Press  or  until you see the option you want. Then press . Press  twice to exit to the Main menu.


Power-Up Mode

Power-up mode lets you decide how your printer starts each time you turn it on. If you want the printer to be ready to start printing when it is turned on, use the Online power-up mode. If you want the operator to perform some other task first, use the Offline power-up mode.

To change the setting, from the Main Menu, select Setup, then Defaults. Then, follow these steps.

1. Press  or  until you see



2. Press . You will see the current setting, for example:



3. Press **<** or **>** until you see the option you want. Then press **Enter**. Press **Escape** twice to exit to the Main menu.

Prompt Set

Prompt set determines which language displays on the printer's menu. You can select English, French, German, or Spanish.

To change the setting, from the Main Menu, select Setup, then Defaults. Then, follow these steps.

1. Press **>** until you see

←	DEFAULTS Prompt Set
---	------------------------

2. Press **Enter**. You will see the current setting, for example:

PROMPT SET English	→
-----------------------	---

3. Press **<** or **>** until you see the option you want. Then press **Enter**. Press **Escape** twice to exit to the Main menu.

—————
This option only affects the displayed prompts. It does not change what is printed by the printer.
—————

SETTING FORMAT OPTIONS

You can select Format Options to change which prompts appear during Batch Entry mode and set default values for those prompts. Customizing which prompts appear during batch entry can reduce the time it takes to enter data for a format. If the optional knife is not installed, you can prevent those prompts from appearing during batch entry mode. If you set a new default value for an option, that value is used even if the prompt is not displayed. If you do not change a default value for an option, the system default is used if the prompt is not displayed.

Option	System Default
Clear Fields	No
Number of Parts	1
Print Multiple	1
Quantity	1
Cut Option	No
Cut Multiple	1
Cut Last Ticket	No

The following steps assume you have Password Protection enabled (through the Diagnostics menu) and you have just printed a format. For more information about Password Protection, see Chapter 8, "Diagnostics."

1. Press at the Main menu, when you see Format Options. You will see

Enter Password:

2. Enter the password: . You will see

Select Format:

UPCA-1 →

3. Press or until you see the format you want. Press . You will see

Clear Fields?

Prompt? Yes

4. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Clear Fields?

Default? No

5. Decide if you want to change the default and press either or to display your selection. Press . You will see

Number of parts

Prompt? Yes

6. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Number of parts
Default? No

7. Decide if you want to change the default setting of one (1) and press either or to display your selection. Press . If you select "Yes," you will see

Number of parts
[1/5]: +1

8. Select the number of parts to print across the supply by pressing to increase the number or to decrease the number. Press . The range is one through five.

What you see next depends on if you have a knife installed.
Without a knife, the next prompt you see is for **Print Multiple**.
With a knife installed, you will see

Cut Option
Prompt? Yes

9. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Cut Option
Default? No

10. Decide if you want to change the default and press either or to display your selection. Press . You will see

Cut Option
No

If you select "Yes," you will see

Cut Multiple
Prompt? Yes

11. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Cut Multiple
Default? No

12. Decide if you want to change the default setting of one (1) and press either or to display your selection. Press . If you select "Yes," you will see

Cut Multiple
0

13. Select the number of tags printed before cutting by pressing to increase the number or to decrease the number. Press . The range is one through 32000.

To cut between batches, make the Cut
Multiple the same as the print quantity.

You will see

Cut Last Ticket?
Prompt? Yes

14. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Cut Last Ticket?
Default? No

15. Decide if you want to change the default and press either or to display your selection. Press .

If you select "Yes," the last tag in the batch is cut. The printer must feed one or two tags past the printhead to cut the last tag in the batch.

You will see

Cut After Batch:
Prompt? Yes

16. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Cut After Batch:
Default? No

17. Decide if you want to change the default and press either or to display your selection. Press .

If you select "Yes," the knife cuts before the first tag and cuts after batch, so the tags are cuts in strips.

You will see

No Cut Before?
Prompt? Yes

18. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

No Cut Before?
Default? No

19. Decide if you want to change the default and press either or to display your selection. Press .

If you select "Yes," the knife does not cut before the first tag in a batch, but does cut between each tag and after the last tag in a batch.
You will see

Quantity?
Prompt? Yes

20. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Quantity
Default? No

21. Decide if you want to change the default and press either or to display your selection. Press . If you select "Yes," you will see

Quantity
0

22. Select the quantity of each label to print in a batch by entering the number using the numeric keys on the keypad. Press to correct the quantity if you enter it incorrectly. Press to accept the quantity. The range is one through 32000.
After setting the format options, you are ready to use Batch Entry mode to enter data for your formats.

Without a knife, you will see the prompts for **Print Multiple** after the prompts for Number of Parts.

Print Multiple
Prompt? No

23. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Print Multiple
Default? No

24. Decide if you want to change the default and press either or to display your selection. Press . If you select "Yes," you will see

Print Multiple
0

25. Select the number of copies of each tag to print as a *set* within a batch by entering that number using the numeric keys on the keypad. Press to correct the quantity if you enter it incorrectly. Press to accept the quantity. The range is one through 32000. You will see

Quantity
Prompt? Yes

26. Decide if you want to see this prompt in Batch Entry mode and press either or to display your selection. Press . You will see

Quantity
Default? No

27. Decide if you want to change the default and press either or to display your selection. Press . If you select "Yes," you will see

Quantity 0

28. Select the quantity of each label to print in the batch by entering that number using the numeric keys on the keypad. Press to correct the quantity if you enter it incorrectly. Press to accept the quantity. The range is one through 32000.

After setting the format options, you are ready to use Batch Entry mode to enter data for your formats.

PRINTING

7

This chapter explains how to print, interrupt, restart, cancel, and repeat a batch.

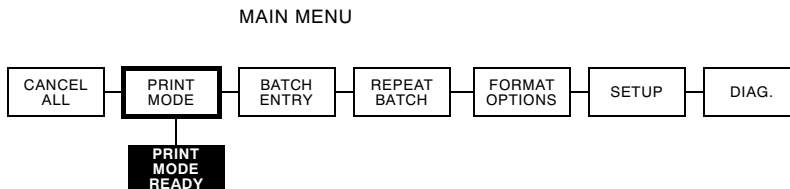
You can send format, batch, and graphic data to the printer from a host. When the printer receives the data, batches begin printing automatically. The *Packet Reference Manual* tells how to create, store, and download the data necessary to print batches. You can also use the MONARCH® MPCL™ Toolbox utilities to create and download packets.

Before you print, make sure the printer is connected and ready to receive data. Your printer is ready to receive and print batches when you see



Printing begins as soon as you download the format and batch data from the host. You can also enter offline batch data from the keypad. If there are offline batches in the print queue, the offline batches print after the downloaded batches have printed.

You can print formats online or offline. If you send formats that require operator data, use Batch Entry Mode to enter the data. See "Entering a Batch" for more information.



Pausing a Batch

You can pause printing by pressing **Escape**. You may want to interrupt a batch to make adjustments for:

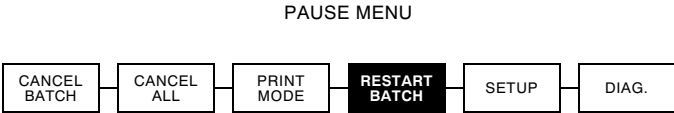
- ◆ Loading a different roll of supply or a ribbon. Refer to your *Operator's Handbook*.
- ◆ Adjusting the supply position or contrast using the Setup menu. See Chapter 2, "Setting Supply Options," or Chapter 4, "Setting Contrast."

When you press **Pause** you will see



You can press **Enter** to resume printing or press **<** or **>** to display the Pause Menu options.

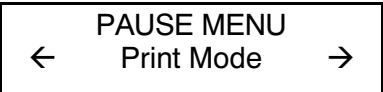
The following chart shows the Pause Menu options.



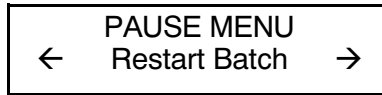
Restarting a Batch

You can reprint a paused batch from the beginning (using the original quantity).

1. When you press **Pause**, you will see



2. Press  or  until you see

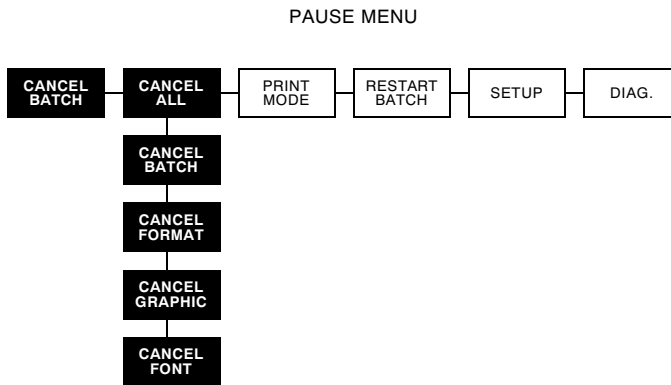


3. Press . The batch starts printing from the beginning.

Canceling a Paused Batch

You can cancel a paused batch, delete a format, graphic, or font in memory, or all the batches waiting to print.

Before any format, graphic, or font in memory
can be deleted, you must cancel all batches.



1. Press  to interrupt printing. You will see



- ◆ If you want to cancel only the paused batch, skip step 3.
- ◆ If you want to cancel all the batches, skip step 2.

2. To cancel only the paused batch, press or until you see

PAUSE MENU Cancel Batch <input type="button" value="→"/>

Then press . The batch is deleted and the printer prints any remaining batches.

3. To cancel all the batches (including the paused batch), press or until you see

PAUSE MENU ← Cancel All <input type="button" value="→"/>
--

and press . You will see

Cancel Batches? No <input type="button" value="→"/>
--

4. You can

- ◆ exit without canceling any batches. Press or press to display **No** and then press . The printer returns to the Pause menu. Press or to select another function from the Pause Menu, or to return to Print Mode and print all the batches.
- ◆ cancel all batches in the print queue. Press to display **Yes**, then press . You will see

Cancel Format? No <input type="button" value="→"/>

Press or then press . You will see

Cancel Graphic? No <input type="button" value="→"/>
--

Press **<** or **>** then press **Enter**. You will see

Cancel Font?
No →

Press **>**, then press **Enter**. You will see

PRINT MODE
Ready

If you select "Yes," these prompts delete **ALL** formats, graphics, and/or fonts in the printer.

Repeating a Batch

Before you start printing a new batch, you can reprint the last batch. The batch can be either the last one you printed completely or one that you canceled after starting to print.

MAIN MENU



1. From the Main Menu, press **<** or **>** until you see

← MAIN MENU Repeat Batch →

2. Press **Enter**. You will see

Printing
xxxx of xxxx

The number increments until the entire batch has printed. When it is finished, you will see

PRINT MODE
Ready

Offline Printing


This section explains how to prepare your printer for offline printing, use the data entry keys, and enter data. With offline printing, you enter batch data from the keypad and print batches. You can enter numbers, letters, and a variety of symbols (including punctuation and international characters) from the keypad. International characters are available by pressing **Pause** and code numbers. See Appendix A for more information. You can switch between character and numeric mode at any time by pressing **Shift**. You must send the format to the printer first. You can send several offline formats to the printer. After downloading the format, select Batch Entry from the Main menu. Press **Enter**. Select the format and press **Enter**. After entering the batch data, press **Enter**. The batch prints. You can also select Repeat Batch from the Main menu to print the batch. See "Entering a Batch" for more information.

Entering Numbers



You must be in numeric mode to enter numbers. If a caret appears in the upper right corner of the printer display, press **Shift** to remove. If no caret appears in the upper right corner, you are ready to enter numbers.

To enter numeric data, press the alphanumeric key that shows the number you want. The screen displays the number, and the cursor moves to the next position in the field. This is also how you enter a period (.), comma (,), dollar sign (\$) or pound sign (#). You can switch back to character mode at any time by pressing **Shift**. Each time you press this key, the mode switches from one mode to the other.

Here is an example of how to enter **\$23.00**.

1. Press the **\$** key. The symbol **\$** appears.
2. Press the **2** key. The number **2** appears.
3. Press the **3** key. The number **3** appears.
4. Press the **.** key (below the **2** key). The symbol **.** appears.
5. Press the **0** key twice. The numbers **00** appear.
6. Press  when you have entered all the data for the field.

Entering Letters

When you use  on the printer keypad, a caret symbol appears in the upper right corner of the printer display. This indicates you are in character mode and can enter letters. To enter character data, press  to switch to character mode. A caret symbol appears in the upper right corner of the printer display as follows:

Item:	^

Once character mode is active, press the alphanumeric key that shows the letter you want. The first letter assigned to the key appears in the field. Each time you press the same key, the next letter that is assigned appears. An alphanumeric key may have up to six letters assigned, three in upper-case and three in lower case. When the character you need appears, press **→** to move to the next position in the field.

Some symbol characters are assigned to the dollar sign (\$) and pound sign (#). They switch between characters each time you press the same key. They are (in the order assigned):

\$	¢
#	? @ & ! _ p \ ^ ~

Here is an example of how to enter the word **Shirt**.

Not all fonts support lower-case letters. See Appendix A, "Character Sets," for the character set information.

1. Press **Shift** to switch to character mode.
2. Press the **1** key once. The letter **S** appears in upper case.
3. Press **>** to move the cursor to the next position on the screen.
4. Press the **9** key five times. The letter **h** appears in lower-case.
5. Press **>** to move the cursor to the next position on the screen.
6. Press the **9** key six times. The letter **i** appears in lower-case.
7. Press **>** to move the cursor to the next position on the screen.
8. Press the **6** key six times. The letter **r** appears in lower-case.
9. Press **>** to move the cursor to the next position on the screen.
10. Press the **1** key five times. The letter **t** appears in lower-case.
11. Press **Enter** when you have entered all the data for the field.

Entering Symbols

You can use character codes to enter symbols. See Appendix A, "Character Sets" for symbols and corresponding character codes.

To enter a character code

1. Press **Pause**. Use the numeric keys to enter the three-digit character code. For example, enter **179** for **¥**.
2. Press **Enter**.

Using Bar Code 128

You can enter function codes 1 - 4 for code 128 bar codes. These codes only function as code 128 data. They do not print if you enter them as data anywhere else. See the Code 128 table in Appendix A for the function code you want.

To enter a function code

1. Press **Pause**. Use the numeric keys to enter the function code you want.
2. Press **Enter**.

Entering and Changing Data

When you need to enter data, the screen shows a prompt with an underscore for each character you can enter.

DEPT: JUNIOR _ _ _

For example, this screen shows you can enter up to three characters before pressing **Enter**. If you try to enter more than three characters, the printer will not accept the data. Pressing **Enter** accepts your entry.

Some fields specifically require numeric or alphabetic data. If you try to enter numeric data for an alpha field, or alphabetic data for a numeric field, the printer does not accept the data. Enter the correct data and press **Enter**.

To change data

- ◆ use **←** to back up; type the new data over the old data and then press **Enter**, or
- ◆ press **Clear** to clear all data; then re-enter the correct data and press **Enter**.

When you enter data incorrectly, the printer displays a message. Following are conditions that cause errors and how to correct them. Sometimes a data entry problem may be a combination of these conditions.

Problem	Action
The data you entered is not accepted.	Refer to your format for acceptable characters for this field. Some fields accept only letters, some accept only numbers. Some accept only specific ranges of letters or numbers.
Your data was not accepted and blanks are still showing.	This field requires data for all underscores shown. Enter the correct data and press <input type="button" value="Enter"/> .
You entered an incorrect check digit.	The data and check digit must be the correct combination. Enter the correct data and press <input type="button" value="Enter"/> .
You tried to skip a required field.	This field requires data before continuing to the next field. Enter data and press <input type="button" value="Enter"/> .

Types of Data Entry

Following are samples of the prompts you may see when entering data.

Entering General Data

When you see a prompt similar to the one below, you can enter a character for each blank.

DEPT:

DEPT _ _ _ _

Entering a Price

At data entry, the price prompt includes the pricing symbols (unless you select **None** for Monetary Sign). Your price prompt may look like this

PRICE: \$0.00

...or like this

PRICE: 0¢

The difference between these prompts is the symbol used for printing amounts less than \$1.00. You can select the cent sign for printing amounts less than \$1.00 using the Defaults function. The same option is available for other currencies. See Chapter 5, "Setting Defaults."

You can enter and print: cent amounts, dollar and cent amounts, or unit prices. For example: 3¢, \$.59, \$15.98, 2/59¢, or 3/\$1.00.

Entering "2-For" Price Data

You can use any price field in a "2-for" pricing scheme. When entering data for a price field offline (at the printer), use the # key to separate the 2 and the price data in the "2-for" price. For example, to enter the price "Two for \$5.00," enter **2#500**. If you use option 42 to format the field online as a price field, enter the quantity, a slash, and the price data. For example, to enter the price "Two for \$5.00," enter **2/500**.

Prompts with Fixed Characters

When a field has fixed characters, they appear as part of the data entry prompt. The fixed data stays the same, and prints on every tag that uses the format. Only the data you enter can be changed. In the example below, the first six digits are fixed characters.

UPCA Barcode: 004156 _ _ _ _ _

The printed field contains both the fixed characters and the data you enter.

Entering a Batch

Batch Entry lets you enter the data to print a batch (or batches) of supplies. You can enter up to 3 batches before you print.

1. Press **Escape** until you see the Main menu.
2. Press **<** or **>** until you see

MAIN MENU		
←	Batch Entry	→

3. Press **Enter**. You will see

Select Format:	
FMT-1	→

4. Press **<** or **>** until you see the name of the format you want, then press **Enter**.

5. If this format has been used since the printer was turned on (and you have not used another format in the meantime), you will see

Clear Fields? No →

- ◆ Press to keep the old data. Each field appears with the previous data. You can press to accept the data, or change it and press .
 - ◆ Press then press to erase the old data. Each field appears with blanks (underscores). You have to enter new data for each field.
6. You will see the first prompt for the format. Enter data and press for each prompt.
7. After you enter data for all the fields, the prompts you see next varies, because you can choose to display or not to display certain prompts.

You may see

Number of parts? [1/5]: _

8. Type the number of times the data prints across the tag width. Press . You will see

Cut Option No →

- ◆ If your printer has a knife and you want to cut tags, press to display "Yes" and press .
- ◆ If your printer does not have a knife, select "No" by pressing . All the tags in the batch will be printed in one strip. See "Printing Tags Without Cutting" for more information.

If you answered "Yes" to the cut option, you have several cut modes to select from.

Cut Mode	Description
Cut after tag (Cut Mode 1)	Cuts before first tag, cuts each tag, and cuts after last tag.
Cut after batch (Cut Mode 2)	Cuts before first tag, cuts after batch. Cuts in strips, not each tag.
Cut last ticket (Cut Mode 3)	Cuts before first tag, cuts each tag, cuts after the last tag and feeds one or two tags past the printhead when it cuts the last tag in the last batch.
No cut before (Cut Mode 4)	Does not cut before the first tag in a batch, but cuts between each tag and after the last tag in the batch.

If you do not specify a cut mode (cut last ticket, cut after batch, or no cut before), the knife cuts after each tag. This is the same as cut mode 1. The knife uses the last selected cut mode. For example, if you select "Cut Last Ticket" and then select "Yes" to "Cut After Batch," the knife only cuts after each batch instead of after the last tag in the batch.

You will see

Cut multiple
 [1/32000]: 1 _ _ _ _

9. Type the number of tags to print before cutting and press , or accept the default value of 1 by pressing . A cut multiple of one cuts after each tag. This is the same as cut mode 1. You will see

Cut Last Ticket:
 No →

10. If you want to cut the last tag in the batch, press to display "Yes" and press . The printer feeds one or two tags past the printhead when it cuts the last tag in the last batch.

Depending on the length of your supply, you may lose up to two tags after the last batch. This is the same as cut mode 3. You will see

Cut After Batch:
No →

11. If you want to cut after every batch, press to display "Yes" and press . The knife cuts before the first tag and cuts after batch, so the tags are cut in strips. This is the same as cut mode 2. You will see

No Cut Before?
No →

12. If you do not want to cut before the first tag in a batch, press to display "Yes" and press . The knife does not cut before the first tag in a batch, but does cut between each tag and after the last tag in a batch. This is the same as cut mode 4. You will see:

Quantity
[1/32000]: 1 _ _ _ _

13. Type the number of tags or sets of tags you want to print in this batch and press . A cut multiple of two with a batch quantity of 30 prints 30 tags (15 sets of two tags). You will see

← MAIN MENU →
Print Mode

14. Press . The batch begins to print. The display counts the tags as they print and how many tags are in the batch.

Printing Tags Without Cutting

If you answered "No" to the cut option, you will see

Print Multiple
[1/32000]: _ _ _ _ _

1. Type the number of copies of each tag to print as a *set* within a batch. If you want three copies of each tag, use a print multiple of 3. Press Enter. You will see

Quantity
[1/32000]: _ _ _ _ _

2. Type the number of tags or sets of tags you want to print in this batch and press Enter. A print multiple of two with a batch quantity of 30 prints 60 tags (30 sets of tags with two tags per set). You will see

MAIN MENU
← Print Mode →

3. Press Enter. The batch begins to print. The display counts the tags as they print and how many tags are in the batch.

When all the batches have printed, you will see

PRINT MODE
Ready

Keep in mind the following definitions:

Number of Parts Number of times data prints across the tag's width. Using one for number of parts prints data once on the tag. Using three for number of parts prints data three times across the tag.

Cut Multiple Number of tags printed between cuts as a set. A cut multiple of one cuts after each tag. To cut after each batch, set the cut multiple equal to the print quantity.
If the cut multiple is three and the print quantity is 15, five sets of three tags are printed and cut (15 tags). If the cut multiple is three and the print quantity is 16, five sets of three tags and one set of one tag are printed and cut (16 tags).

The cut multiple does NOT affect the printed quantity.

Print Multiple Number of copies of each tag to print as a *set* within a batch. A print multiple of one prints one set of one tag. A print multiple of three prints three copies of each tag as a set. If the print multiple is three and the print quantity is 15, then 15 *sets* of tags with three tags *per set* are printed (45 tags). If the print multiple is two and the print quantity is four, then four *sets* of tags with two tags *per set* are printed (8 tags).
The most common application for print multiple is with incrementing or decrementing fields. See "Using Print Multiple with Inc/Dec Fields" for more information.

The print multiple DOES affect the printed quantity.

Print Quantity	Number of tags or <i>sets</i> of tags printed in a batch. A print quantity of 30 prints 30 tags when the print multiple is one.
Set	Number of tags to be printed together within a batch.

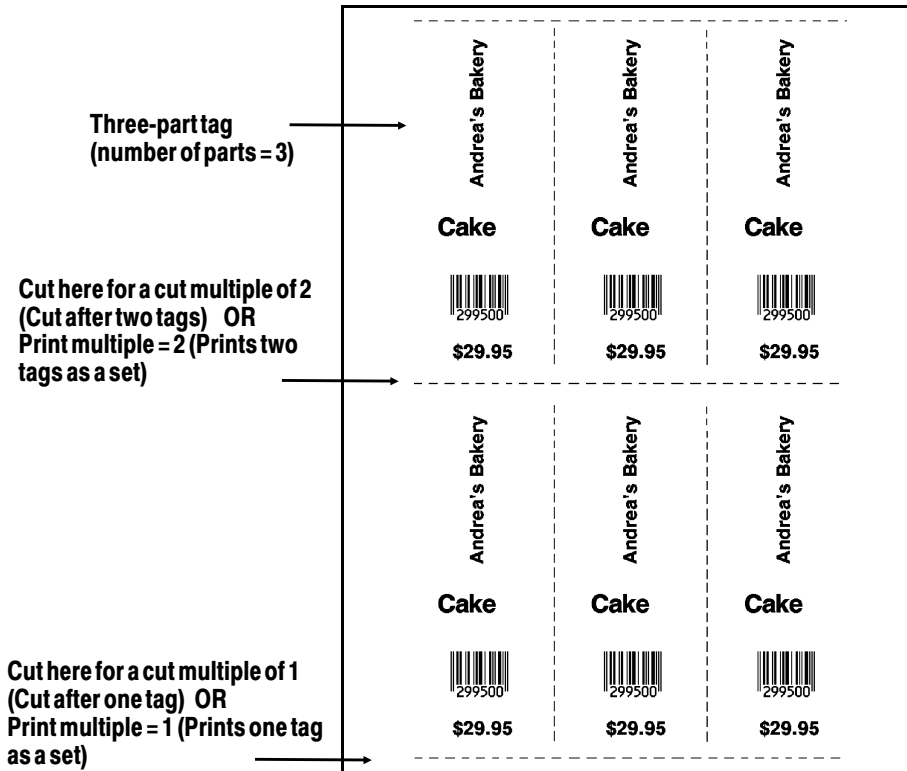
Using Print Multiple with Inc/Dec Fields

If your tag has an incrementing or decrementing field, the print multiple is the number of tags printed as a set *before* incrementing or decrementing. If the incrementing field is set to 10, the print multiple is 2, and the print quantity is 2, then four tags are printed. Two tags print "10" in the incrementing field, the other two tags print "11" in the incrementing field.

Examples

- ◆ Number of parts = 1, cut multiple or print multiple = 1, print quantity = 4, then four sets of one tag are printed (and cut after each tag if using cut multiple).
- ◆ Number of parts = 3, cut multiple = 2, print quantity = 2, then two tags are printed and cut after the second tag is printed.
- ◆ Number of parts = 3, print multiple = 2, print quantity = 2, then four tags are printed as two sets of two tags.
- ◆ Number of parts = 3, print multiple = 2, print quantity = 4, then eight tags are printed as four sets of two tags.

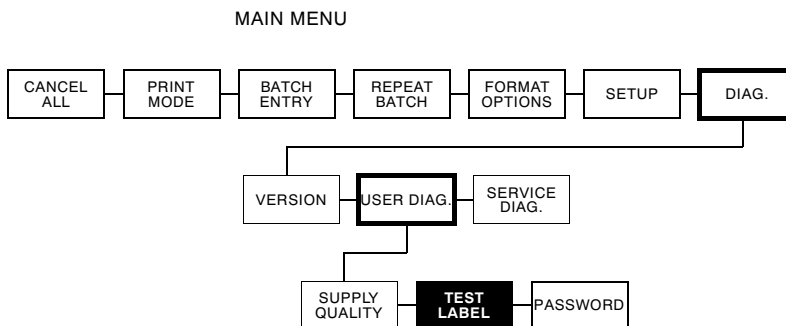
The following graphic shows the relationship between the number of parts, cut multiple, and print multiple.



DIAGNOSTICS

8

This chapter explains how to perform simple diagnostic functions such as checking the software version, the supply quality, printing test labels, and using password protection.



Factory Set Password

You need a password to access diagnostic functions. The permanent factory-set password is: **Pause Pause Pause Enter**.

Checking the Software Version

From the Diagnostics Menu, press **<** or **>** until you see



DIAGNOSTICS
Version →

Press **Enter**. You will see



M9850 PN120395
V 1.1

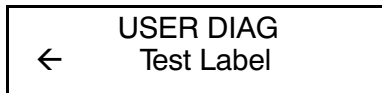
Line one lists the printer model number (M9850) and the part number for the printer ROM. Line two is the version of software in the printer.


Printing a Test Label

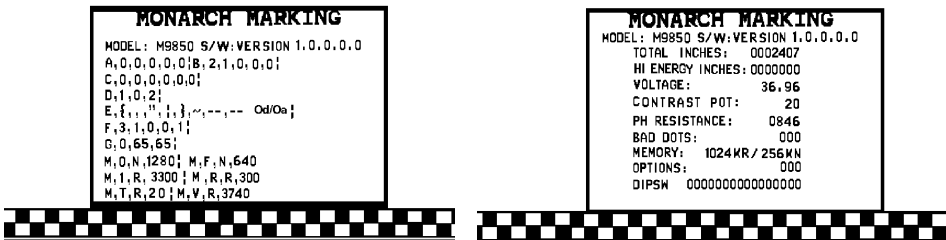
1. From the Diagnostics Menu, press  or  until you see



2. Press  and  until you see



3. Press . The following test labels print.



The test labels display printer model number, software version number, number of inches printed to date, user COM port settings, and a test pattern. This information will help Technical Support diagnose the problem. Refer to the *Packet Reference Manual* for more information about the test label.

Checking Supply Quality

The printer continuously stores data from the most recent 16 supplies printed to check the reflectivity of the sensor marks on the supply. Before you check your supply quality, print a batch of supplies or test labels.

1. From the Diagnostics menu, press or until you see

DIAGNOSTICS		
←	User Diag	→

2. Press . You will be at the User Diagnostics menu.
Press or until you see

USER DIAG		
	Supply Quality	→

3. Press . If you have not printed any labels, the message "No data! Press Enter" appears. You will also see the "No data! Press Enter" message if you are using continuous (non-indexed) supplies.
If you have printed labels since turning on the printer, you will see

Len	Min	Max	OK
← 1568	034	124	Y →

The Len listing is the length of the loaded supply in dots.

The Max listing should always be greater than the Min listing. However, if you have used a Monarch® 9446™ printer or a Monarch® 9403™ printer, the Min listing can be greater than the Max listing. The OK listing tells whether the sense mark on the supply passed a detection test. Press to see the other readings. If you are not using a Version 5.2 hardware (sensing system) and you try to check the supply quality, the message "HW not supported" appears.

Using Password Protection

The password protection feature prevents formats, graphics or fonts from accidentally being deleted from the printer's memory.

Enabling the Password (System Administrators only)

A System Administrator can enable the password that must be entered before formats, graphics or fonts can be deleted.

1. From the Main Menu, press or until you see

MAIN MENU ← Diagnostics

2. Press . You will see

Enter Password -----

3. Type your password: .
If you enter the wrong password, you return to the Main Menu.

4. From the Diagnostics Menu, press or until you see

DIAGNOSTICS ← User Diag

5. Press . Then, press or until you see

USER DIAG ← Password

6. Press . You will see

Enable Password? ← No

The default for password protection is "No," so you will always see "No" even if passwords are enabled.

7. If you do not want the user to enter a password before they can delete formats, graphics or fonts, press . You return to the User Diagnostics Menu.

OR

Press to display "Yes" and press . The password protection is enabled for formats, graphics or fonts. You return to the User Diagnostics Menu.

8. Press twice to exit to the Main Menu.

Deleting Formats, Graphics or Fonts

To delete batches, formats, graphics or fonts if password protection is enabled:

1. From the Main Menu, press or until you see

MAIN MENU Cancel All →

2. Press . You will see

Cancel Batches? No →

Press if you do not want to cancel batches. You return to the Main Menu, **OR**

Press to display "Yes" and press . All batches in the print queue are canceled.

You will always be prompted to cancel formats, graphics or fonts if you answer "Yes" to cancel batches.

You will see

Cancel Format? No →

3. Press < or > and press **Enter**. If you select "Yes," you will see

Enter Password _ _ _ _ _

4. Press **Pause** **Pause** **Pause** **Enter** and all formats are deleted. If you enter the wrong password, you return to the Main Menu.

You see the prompts to cancel graphics or fonts if you answer either "Yes" or "No" to cancel formats.

You will see

← Cancel Graphic? Yes

5. Press < or > and press **Escape**. If you select "Yes," you will see

Enter Password _ _ _ _ _

6. Press and all graphics are deleted.
You will see

Cancel Font?

←

Yes

7. Press or and press . If you select "Yes," you will see

Enter Password

8. Press and all fonts are deleted. You return to the Main Menu.

Deleting Formats If Password Protection Is Disabled

The default for password protection is "No," which means you will not be prompted for a password if you want to delete formats, graphics or fonts. After you cancel batches from the Cancel All menu, you will see

Cancel Format?

No

→

The default is "No."

1. Press to display "Yes" and press . You will **not** be prompted for a password and all formats are deleted. You will then see the prompts for deleting graphics or fonts.
2. Press or to display your selection ("Yes" or "No") and press . Your graphics and/or fonts are/are not deleted.

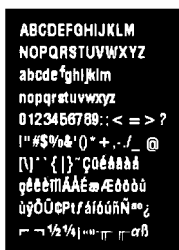
Service Diagnostics

The Service Diagnostics menu can only be accessed by a Monarch Representative, because it requires a separate password. If you need to call Technical Support, print a test label first.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 0123456789@½
 !"#\$%&'()*+,-
 [\\]^_`{|}~:;<=>?
 \$£¥₽FPLK₩₪₹¢₣
 ₧₩฿₪₹¢₣



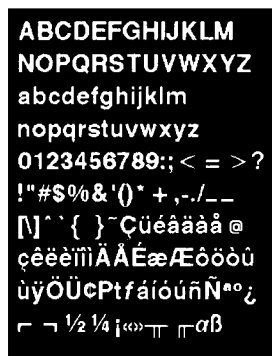
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789.:<=>?
!"#\$%&'()*+,-./:_@
[\\]^_{|}~`ª«¬®¯°±²³´µ¶·¸¹º»¼½¾¿
À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó
Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ à á â ã



ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789@
"/+,-./<>R&B¥
\$£¥PPLKMR&P€



ABCDEFGHIJKLM
 NOPQRSTUVWXYZ
 abcdefghijklm
 nopqrstuvwxyz
 0123456789;<=>?
 !"#%&'()*+,-./:_
 [] ^ _ { } ~ ¨ Ü é à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ù ý ÿ Ö Ü Ç Þ ß à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ù ý ÿ Ö Ü Ç Þ ß



Uppercase Letters

Use Character Mode to enter the offline code.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
A	A	7	N	N	55
B	B	77	O	O	555
C	C	777	P	P	6
D	D	8	Q	Q	66
E	E	88	R	R	666
F	F	888	S	S	1
G	G	9	T	T	11
H	H	99	U	U	111
I	I	999	V	V	2
J	J	4	W	W	22
K	K	44	X	X	222
L	L	444	Y	Y	3
M	M	5	Z	Z	33

Lowercase Letters

These letters are available in Standard and Reduced fonts.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
a	a	7777	n	n	55555
b	b	77777	o	o	555555
c	c	777777	p	p	6666
d	d	8888	q	q	66666
e	e	88888	r	r	666666
f	f	888888	s	s	1111
g	g	9999	t	t	11111
h	h	99999	u	u	111111
i	i	999999	v	v	2222
j	j	4444	w	w	22222
k	k	44444	x	x	222222
l	l	444444	y	y	333
m	m	5555	z	z	3333

Currency Symbols

You can enter international currency symbols offline by setting the default monetary sign to the desired country setting and pressing the \$ key. The \$ enters the monetary sign that is currently active. **[Shift]**/\$ enters the secondary sign (for example, ¢ in U.S. currency). To change the monetary sign, see Chapter 5, "Setting Defaults."

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
			L.	~183	[Pause] 183
\$	\$	\$	K _r	~184	[Pause] 184
£	~178	[Pause] 178	₭	~185	[Pause] 185
¥	~179	[Pause] 179	₮	~186	[Pause] 186
₮	~180	[Pause] 180	Rₛ	~187	[Pause] 187
F	~181	[Pause] 181	₮	~188	[Pause] 188
P	~182	[Pause] 182	₮	~189	[Pause] 189
¢	~155	[Shift] \$	₮	~190	[Pause] 190
£	~156	[Pause] 156	¥	~191	[Pause] 191
			€	~192	[Pause] 192

Punctuation and Symbols

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
.	.	.	,	,	[Shift] ,
{ ¹	{	[Shift] . .	} ¹	}	[Shift] , ,
[²	[[Shift] . . .] ²]	[Shift] , , ,
<	<	[Shift]	>	>	[Shift] , , , ,
(([Shift]))	[Shift] , , , , ,
'	'	[Shift]	"	"	[Shift] , , , , , ,
;	;	[Shift]	:	:	[Shift] , , , , , , ,

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
#	#	#	(spc)	(spc)	Shift 0
?	?	Shift #	/	/	Shift 00
@	@	Shift ##	*	*	Shift 000
&	&	Shift ###	+	+	Shift 0000
!	!	Shift ####	-	-	Shift 00000
_	_	Shift #####	%	%	Shift 000000
¹		Shift #####	" ²	\	Shift 0000000
‘ ¹	‘	Shift #####	"	~034	Pause 034
^		Shift #####	~	~198	Pause 198
=	=	(None)	² _	~199	Pause 199
¢		Shift \$			

¹Not available in the OCRA-like and Bold fonts. ²Not available in the OCRA-like font.

International Characters

These characters are available in Standard and Reduced fonts.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
Ç	~128	Pause 128	Ö	~153	Pause 153
ü	~129	Pause 129	Ü	~154	Pause 154
é	~130	Pause 130	¢	~155	Pause 155*
â	~131	Pause 131	£	~156	Pause 156*
ä	~132	Pause 132	¥	~157	Pause 157*
à	~133	Pause 133	Pt	~158	Pause 158*
å	~134	Pause 134	_	~159	Pause 159

*Available in Bold and OCRA-like font using currency codes.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
ç	~135	<input type="button" value="Pause"/> 135	á	~160	<input type="button" value="Pause"/> 160
ê	~136	<input type="button" value="Pause"/> 136	í	~161	<input type="button" value="Pause"/> 161
ë	~137	<input type="button" value="Pause"/> 137	ó	~162	<input type="button" value="Pause"/> 162
è	~138	<input type="button" value="Pause"/> 138	ú	~163	<input type="button" value="Pause"/> 163
ï	~139	<input type="button" value="Pause"/> 139	ñ	~164	<input type="button" value="Pause"/> 164
î	~140	<input type="button" value="Pause"/> 140	Ñ	~165	<input type="button" value="Pause"/> 165
ì	~141	<input type="button" value="Pause"/> 141	ª	~166	<input type="button" value="Pause"/> 166
Ä	~142	<input type="button" value="Pause"/> 142	º	~167	<input type="button" value="Pause"/> 167
Å	~143	<input type="button" value="Pause"/> 143	¿	~168	<input type="button" value="Pause"/> 168
É	~144	<input type="button" value="Pause"/> 144	¬	~169	<input type="button" value="Pause"/> 169
æ	~145	<input type="button" value="Pause"/> 145	¬	~170	<input type="button" value="Pause"/> 170
Æ	~146	<input type="button" value="Pause"/> 146	¡	~173	<input type="button" value="Pause"/> 173
ô	~147	<input type="button" value="Pause"/> 147	<<	~174	<input type="button" value="Pause"/> 174
ö	~148	<input type="button" value="Pause"/> 148	>>	~175	<input type="button" value="Pause"/> 175
ò	~149	<input type="button" value="Pause"/> 149	~	~198	<input type="button" value="Pause"/> 198
û	~150	<input type="button" value="Pause"/> 150	_	~199	<input type="button" value="Pause"/> 199
ù	~151	<input type="button" value="Pause"/> 151	Ø	~210	<input type="button" value="Pause"/> 210
ÿ	~152	<input type="button" value="Pause"/> 152	ø	~214	<input type="button" value="Pause"/> 214
1/2	~171	<input type="button" value="Pause"/> 171	α	~224	<input type="button" value="Pause"/> 224
1/4	~172	<input type="button" value="Pause"/> 172	β	~225	<input type="button" value="Pause"/> 225

Code 128 Function Codes

Code	Function Code
~201	F1
~202	F2
~203	F3
~204	F4

For supplies, service, or assistance call toll free:

1-800-543-6650 (In the U.S.A.)

1-800-263-4650 (In Canada)

www.monarch.com